Investigation Title: Utilization of Skylab (EREP) System for Appraising Changes in Continental Migratory Bird Habitat.

EREP Investigation No. 486

Period Covered: July 1975

NASA Contract No. T-4114B

USDI Contract No. 14-16-0008-802

Principal Investigations Management Office:

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Type of Report: Monthly Progress

Overall Status:

Previously requested S-192 CCT's containing conical scan data were received during this reporting period. These data were needed in order to avoid certain channel-to-channel misregistration problems and thus facilitate multi-channel processing. Conical scan data were converted to ERIM format and a water recognition map generated for the purpose of verifying the accuracy of geographic locations. In addition, a 1% systematic sample was used to verify that the conical-scan data as received had been processed similarly to our line-straightened data set. This verification was accomplished by comparing absolute values and dynamic ranges of line-straightened and conic-scan data in all SDO's. The results of this comparison are shown in the attached figure. The various data channels were comparable except SDO's 6, 9, and 14. We can give no explanation for these disparities until further analysis is accomplished.

All recognition maps resulting from aircraft data processing and single channel S-192 data processing have been compiled. These maps were produced using an ink jet color printer and will be submitted in the final report.

Recommendations for Action:

None

Expected Accomplishments During the Next Reporting Period:

Single-channel grey maps will be produced and training sets will be located thereon. The signatures obtained from these training sets will be utilized for proportion estimation water recognition.

Significant Results:

None to report.

Summary Outlook:

We hope to present the results of the processing of S-192 conical scan data at the Purdue "Land-Use" meeting scheduled for 9-11 September.

Travel Summary and Outlook:

No travel was undertaken during this reporting period. Travel is not anticipated during the next reporting period.